



06-14-00 A

Please type a plus sign (+) inside this box → 

PTO/SB/05 (4/98)

Approved for use through 09/30/2000. OMB 0651-0032  
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**UTILITY  
PATENT APPLICATION  
TRANSMITTAL**

(Only for new nonprovisional applications under 37 C.F.R. § 1.53(b))

Attorney Docket No. P3813

First Inventor or Application Identifier Stephen Melvin, et al.

Title Method and Apparatus for Implementing Atomicity of Memory Operations in Dynamic Multi-Streaming Processors

Express Mail Label No. EJ745193384US

**APPLICATION ELEMENTS**

See MPEP chapter 600 concerning utility patent application contents.

- |   |  |
|---|--|
| 1. <input checked="" type="checkbox"/> Fee Transmittal Form (e.g., PTO/SB/17)<br>(Submit an original and a duplicate for fee processing)  | 5. <input type="checkbox"/> Microfiche Computer Program (Appendix)   |
| 2. <input checked="" type="checkbox"/> Specification [Total Pages 54]<br>(preferred arrangement set forth below)  | 6. Nucleotide and/or Amino Acid Sequence Submission<br>(if applicable, all necessary)  |
| - Descriptive title of the Invention  | a. <input type="checkbox"/> Computer Readable Copy   |
| - Cross References to Related Applications  | b. <input type="checkbox"/> Paper Copy (identical to computer copy)  |
| - Statement Regarding Fed sponsored R & D   | c. <input type="checkbox"/> Statement verifying identity of above copies   |
| - Reference to Microfiche Appendix  |  |
| - Background of the Invention   |  |
| - Brief Summary of the Invention  |  |
| - Brief Description of the Drawings (if filed)  |  |
| - Detailed Description  |  |
| - Claim(s)  |  |
| - Abstract of the Disclosure  |  |
| 3. <input checked="" type="checkbox"/> Drawing(s) (35 U.S.C. 113) [Total Sheets 11]   | 7. <input type="checkbox"/> Assignment Papers (cover sheet & document(s))  |
| 4. Oath or Declaration [Total Pages 2]  | 8. <input type="checkbox"/> 37 C.F.R. § 3.73(b) Statement <input checked="" type="checkbox"/> Power of<br>(when there is an assignee) <input checked="" type="checkbox"/> Attorney |
| a. <input checked="" type="checkbox"/> Newly executed (original or copy)  | 9. <input type="checkbox"/> English Translation Document (if applicable)   |
| b. <input type="checkbox"/> Copy from a prior application (37 C.F.R. § 1.63(d))<br>(for continuation/divisional with Box 16 completed)  | 10. <input type="checkbox"/> Information Disclosure Statement (IDS)/PTO-1449 <input type="checkbox"/> Copies of IDS<br>Citations   |
| i. <input type="checkbox"/> DELETION OF INVENTOR(S)<br>Signed statement attached deleting inventor(s) named in the prior application,<br>see 37 C.F.R. §§ 1.63(d)(2) and 1.33(b).                           | 11. <input type="checkbox"/> Preliminary Amendment   |
| 12. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503)<br>(Should be specifically itemized)   |  |
| 13. <input checked="" type="checkbox"/> Small Entity Statement(s) <input type="checkbox"/> Statement filed in prior application,<br>(PTO/SB/09-12) <input type="checkbox"/> Status still proper and desired |  |
| 14. <input type="checkbox"/> Certified Copy of Priority Document(s)<br>(if foreign priority is claimed)   |  |
| 15. <input checked="" type="checkbox"/> Other: Check for fees.....  |  |

**\*NOTE FOR ITEMS 1 & 12:** IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY FEES, A SMALL ENTITY STATEMENT IS REQUIRED (37 C.F.R. § 1.27), EXCEPT IF ONE FILED IN A PRIOR APPLICATION IS RELIED UPON (37 C.F.R. § 1.28).

**16. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment:**

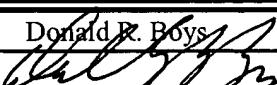
Continuation     Divisional     Continuation-in-part (CIP)    of prior application No: 09/ 312,302

Prior application information: Examiner NA    Group / Art Unit: NA

**For CONTINUATION or DIVISIONAL APPS only:** The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 4b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

**17. CORRESPONDENCE ADDRESS**

<input checked="" type="checkbox"/> Customer Number or Bar Code Label				<input type="checkbox"/> Correspondence address below
Name				
Address				
City		State		Zip Code
Country		Telephone		Fax

Name (Print/Type)	Donald R. Boys	Registration No. (Attorney/Agent)	35074
Signature		Date	06/12/2000

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

06/12/00

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**FEE TRANSMITTAL**

Note: Effective October 1, 1997.  
Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT (\$ 345.00)

**Complete if Known**

Application Number	NA
Filing Date	06/12/2000
First Named Inventor	Stephen Melvin, et al.
Group Art Unit	NA
Examiner Name	NA
Attorney Docket Number	P3813

U.S. PTO  
06/12/00  
09/592106  
C829

METHOD OF PAYMENT (check one)					FEE CALCULATION (continued)																																																																																																																																																																								
1. <input type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any over payments to: Deposit Account Number <input type="text"/> Deposit Account Name <input type="text"/>  <input type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17 <input type="checkbox"/> Charge the Issue Fee Set in 37 CFR 1.18 at the Mailing of the Notice of Allowance					<b>3. ADDITIONAL FEES</b> <table border="1"> <thead> <tr> <th>Large Entity Fee Code (\$)</th> <th>Small Entity Fee Code (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>105</td><td>130</td><td>205</td><td>65</td><td>Surcharge - late filing fee or oath</td></tr> <tr><td>127</td><td>50</td><td>227</td><td>25</td><td>Surcharge - late provisional filing fee or cover sheet.</td></tr> <tr><td>139</td><td>130</td><td>139</td><td>130</td><td>Non-English specification</td></tr> <tr><td>147</td><td>2,520</td><td>147</td><td>2,520</td><td>For filing a request for reexamination</td></tr> <tr><td>112</td><td>920*</td><td>112</td><td>920*</td><td>Requesting publication of SIR prior to Examiner action</td></tr> <tr><td>113</td><td>1,840*</td><td>113</td><td>1,840*</td><td>Requesting publication of SIR after Examiner action</td></tr> <tr><td>115</td><td>110</td><td>215</td><td>55</td><td>Extension for reply within first month</td></tr> <tr><td>116</td><td>400</td><td>216</td><td>200</td><td>Extension for reply within second month</td></tr> <tr><td>117</td><td>950</td><td>217</td><td>475</td><td>Extension for reply within third month</td></tr> <tr><td>118</td><td>1,510</td><td>218</td><td>755</td><td>Extension for reply within fourth month</td></tr> <tr><td>128</td><td>2,060</td><td>228</td><td>1,030</td><td>Extension for reply within fifth month</td></tr> <tr><td>119</td><td>310</td><td>219</td><td>155</td><td>Notice of Appeal</td></tr> <tr><td>120</td><td>310</td><td>220</td><td>155</td><td>Filing a brief in support of an appeal</td></tr> <tr><td>121</td><td>270</td><td>221</td><td>135</td><td>Request for oral hearing</td></tr> <tr><td>138</td><td>1,510</td><td>138</td><td>1,510</td><td>Petition to institute a public use proceeding</td></tr> <tr><td>140</td><td>110</td><td>240</td><td>55</td><td>Petition to revive - unavoidable</td></tr> <tr><td>141</td><td>1,320</td><td>241</td><td>660</td><td>Petition to revive - unintentional</td></tr> <tr><td>142</td><td>1,320</td><td>242</td><td>660</td><td>Utility issue fee (or reissue)</td></tr> <tr><td>143</td><td>450</td><td>243</td><td>225</td><td>Design issue fee</td></tr> <tr><td>144</td><td>670</td><td>244</td><td>335</td><td>Plant issue fee</td></tr> <tr><td>122</td><td>130</td><td>122</td><td>130</td><td>Petitions to the Commissioner</td></tr> <tr><td>123</td><td>50</td><td>123</td><td>50</td><td>Petitions related to provisional applications</td></tr> <tr><td>126</td><td>240</td><td>126</td><td>240</td><td>Submission of Information Disclosure Stmt</td></tr> <tr><td>581</td><td>40</td><td>581</td><td>40</td><td>Recording each patent assignment per property (times number of properties)</td></tr> <tr><td>146</td><td>790</td><td>246</td><td>395</td><td>Filing a submission after final rejection (37 CFR 1.129(a))</td></tr> <tr><td>149</td><td>790</td><td>249</td><td>395</td><td>For each additional invention to be examined (37 CFR 1.129(b))</td></tr> <tr><td colspan="5">Other fee (specify) <input type="text"/></td></tr> <tr><td colspan="5">Other fee (specify) <input type="text"/></td></tr> <tr> <td colspan="5">SUBTOTAL (1) (\$ 345.00)</td> <td colspan="5">SUBTOTAL (3) (\$ 0.00)</td> </tr> <tr> <td colspan="5">Reduced by Basic Filing Fee Paid</td> <td colspan="5">Subtotal (3) (\$ 0.00)</td> </tr> </tbody> </table>					Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid	105	130	205	65	Surcharge - late filing fee or oath	127	50	227	25	Surcharge - late provisional filing fee or cover sheet.	139	130	139	130	Non-English specification	147	2,520	147	2,520	For filing a request for reexamination	112	920*	112	920*	Requesting publication of SIR prior to Examiner action	113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	115	110	215	55	Extension for reply within first month	116	400	216	200	Extension for reply within second month	117	950	217	475	Extension for reply within third month	118	1,510	218	755	Extension for reply within fourth month	128	2,060	228	1,030	Extension for reply within fifth month	119	310	219	155	Notice of Appeal	120	310	220	155	Filing a brief in support of an appeal	121	270	221	135	Request for oral hearing	138	1,510	138	1,510	Petition to institute a public use proceeding	140	110	240	55	Petition to revive - unavoidable	141	1,320	241	660	Petition to revive - unintentional	142	1,320	242	660	Utility issue fee (or reissue)	143	450	243	225	Design issue fee	144	670	244	335	Plant issue fee	122	130	122	130	Petitions to the Commissioner	123	50	123	50	Petitions related to provisional applications	126	240	126	240	Submission of Information Disclosure Stmt	581	40	581	40	Recording each patent assignment per property (times number of properties)	146	790	246	395	Filing a submission after final rejection (37 CFR 1.129(a))	149	790	249	395	For each additional invention to be examined (37 CFR 1.129(b))	Other fee (specify) <input type="text"/>					Other fee (specify) <input type="text"/>					SUBTOTAL (1) (\$ 345.00)					SUBTOTAL (3) (\$ 0.00)					Reduced by Basic Filing Fee Paid					Subtotal (3) (\$ 0.00)				
Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid																																																																																																																																																																										
105	130	205	65	Surcharge - late filing fee or oath																																																																																																																																																																									
127	50	227	25	Surcharge - late provisional filing fee or cover sheet.																																																																																																																																																																									
139	130	139	130	Non-English specification																																																																																																																																																																									
147	2,520	147	2,520	For filing a request for reexamination																																																																																																																																																																									
112	920*	112	920*	Requesting publication of SIR prior to Examiner action																																																																																																																																																																									
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action																																																																																																																																																																									
115	110	215	55	Extension for reply within first month																																																																																																																																																																									
116	400	216	200	Extension for reply within second month																																																																																																																																																																									
117	950	217	475	Extension for reply within third month																																																																																																																																																																									
118	1,510	218	755	Extension for reply within fourth month																																																																																																																																																																									
128	2,060	228	1,030	Extension for reply within fifth month																																																																																																																																																																									
119	310	219	155	Notice of Appeal																																																																																																																																																																									
120	310	220	155	Filing a brief in support of an appeal																																																																																																																																																																									
121	270	221	135	Request for oral hearing																																																																																																																																																																									
138	1,510	138	1,510	Petition to institute a public use proceeding																																																																																																																																																																									
140	110	240	55	Petition to revive - unavoidable																																																																																																																																																																									
141	1,320	241	660	Petition to revive - unintentional																																																																																																																																																																									
142	1,320	242	660	Utility issue fee (or reissue)																																																																																																																																																																									
143	450	243	225	Design issue fee																																																																																																																																																																									
144	670	244	335	Plant issue fee																																																																																																																																																																									
122	130	122	130	Petitions to the Commissioner																																																																																																																																																																									
123	50	123	50	Petitions related to provisional applications																																																																																																																																																																									
126	240	126	240	Submission of Information Disclosure Stmt																																																																																																																																																																									
581	40	581	40	Recording each patent assignment per property (times number of properties)																																																																																																																																																																									
146	790	246	395	Filing a submission after final rejection (37 CFR 1.129(a))																																																																																																																																																																									
149	790	249	395	For each additional invention to be examined (37 CFR 1.129(b))																																																																																																																																																																									
Other fee (specify) <input type="text"/>																																																																																																																																																																													
Other fee (specify) <input type="text"/>																																																																																																																																																																													
SUBTOTAL (1) (\$ 345.00)					SUBTOTAL (3) (\$ 0.00)																																																																																																																																																																								
Reduced by Basic Filing Fee Paid					Subtotal (3) (\$ 0.00)																																																																																																																																																																								
<b>SUBMITTED BY</b> Typed or Printed Name <input type="text"/> Donald R. Boys Signature					Complete (if applicable) Reg. Number <input type="text"/> 35,074 Date <input type="text"/> 06/12/2000 Deposit Account User ID <input type="text"/>																																																																																																																																																																								

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

## Certificate of Express Mailing

"Express Mail" Mailing Label Number: **EJ745193384US**

Date of Deposit: **06/12/2000**

Ref: Case Docket No.: **P3813**

First Named Inventor: **Stephen Melvin, et al.**

Serial Number: **NA**

Filing Date: **06/12/2000**

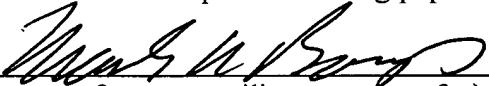
Title of Case: **Method and Apparatus for Implementing Atomicity of Memory Operations in Dynamic Multi-Streaming Processors**

I hereby certify that the attached papers are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. 1.10 on the date indicated above and addressed to the Commissioner of Patents and Trademarks, Washington D.C. 20231

1. Utility patent application transmittal.
2. 54 sheets of specification.
3. 11 sheets of drawings.
4. Fee transmittal.
5. Duplicate fee transmittal.
6. Declaration and Power of Attorney.
7. Verified Statement Claiming Small Entity.
8. Check for fees in the amount of \$345.00.
9. Certificate of express mailing.
10. Postcard listing contents.

Mark A. Boys

(Typed or printed name of person mailing paper or fee)

  
\_\_\_\_\_  
(Signature of person mailing papers or fee)